

## 알코올 사용 장애의 최신지견 : 여성 알코올 사용 장애의 특징 및 치료

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### Recent Advances in Alcohol Use Disorders : Characteristics and Treatment of Alcohol Use Disorder in Women

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The paper reviews recent advances regarding characteristics and treatment issues of alcohol use disorders in women. Women's greater sensitivity to alcohol might explain why alcohol dependence and the physical damage caused by alcohol progress more rapidly in women. There was a significantly higher lifetime prevalence of psychiatric comorbidity in women than in men with alcohol use disorders. Furthermore, comorbid diagnoses are more often primary in women. All of these differences have important treatment implications. (J Korean Neuropsychiatr Assoc 2004;43 (6) :659-664)

**KEY WORDS :** Alcohol use disorders · Female.

#### 서 론

#### 역 학

가 ,  
가<sup>1,2)</sup>  
가<sup>3,4)</sup> 유병율  
1994<sup>4)</sup>  
2.23%  
45.56%  
가<sup>3)</sup> 2003  
2001  
6.3%  
25.2% 1994  
1980 2001  
가  
1998  
3.4 가

2004 10 1 / 2004 11 1

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15

5) 20

40%가

10%

가

13)

,

,

가

20.6%

2001

15~19

1995

3.7

가

가

14)

30.7%

1995

2.2

가

3)

### 사회문화적 특징

**사회문화적 특징**

가 , 가 / , 가 .  
가  
.7)  
6,7)  
7,8)  
**임상경과**  
15-19) 1988 , 1940  
18)  
가  
regular drunkenness  
10)  
가  
4)  
34~38 , 28~30  
가  
binge drinking re-  
gular drinking pattern  
18)  
가  
(telescoping course of illness)  
22)  
Piazza<sup>22)</sup>  
telescopng course  
(0.9 vs 2.3 )  
가  
(5.5 vs 7.8 ).  
(11.6 vs 15.8 ).  
Wils- nonchemical dependence  
23)  
nack<sup>12)</sup> telescopng course가

32)  
 , , , , , ,  
 , , , , ,  
 24) 40,41) 33 - 36) 37 - 39)  
 가  
 (window) 25) 20 가  
 가,  
 26) 가  
 가  
**알코올에 대한 생물학적 반응**  
 가 70%가  
 가 가  
 가 44)가 50% 45)  
 25) Frezza<sup>27)</sup>  
 (alcohol dehydrogenase) 가  
 (first - pass 가  
 metabolism) 가  
**뇌에 미치는 영향**  
 25) 47)  
 (organization) (modulation) 48 - 50)  
 가 28) neurosteroids가 39,51 - 53)  
**알코올 섭취가 신체 기관에 미치는 영향**  
 39,53)  
**내과적 영향**  
 N - acety-  
 29) laspartate 54)  
 가 8)  
**심리적 영향 및 정신과적 공존이환(Psychiatric comor-  
 bidity)**  
 30)  
 25)  
 60 g, 20 g 31)  
 D 55)  
 가

가 (56)

2.6 4.1 (57,58)

가 (fetal alcohol syndrome)

1,000 1.9 (66)

가 (12,59)

가 (1,2)

가 (58)

2/3

2/3

가 (67)

가 (68)

가 (46)

가 (60)

가 (24)

가 (61)

가 (62)

가 (58,63)

알코올 사용 장애와 임신

35%가

가 1/3

가 3 (64)

가 (69)

가 (70)

가 , /

가 . , 가

. 가

(25) /

, 가

가 (71)

, ,

, 가 ,

가 가 (11)

가 .

가 blackout

' ,

(25)

결 론

가 .

가 .

가 ,

가 가 .

가

,

.

가 .

가

,

가

- 1) Kessler RC, McGonagle KA, Zhao S, Nelson CB, Hughes M, Eshleman S, et al. Lifetime and 12-month prevalence of DSM-III-R psychiatric disorders in the United States. Arch Gen Psychiatry 1994;51: 8-19.
- 2) Helzer JE, Burnam A, McEvoy LT. Alcohol abuse and dependence. In: Robins LN, Regier DA, editors. Psychiatric disorders in america. New York: Free Press;1991. p.81-115.
- 3) 한국보건사회연구원. 한국여성의 건강통계;2003. p.82-103.
- 4) 이정균, 이규향. 한국 정신장애의 역학적 조사 연구(15): 알코올리즘의 유형을. 신경정신의학 1994;33:832-845.
- 5) Grant BF, Dawson DA. Age at onset of alcohol use and its association with DSM-IV alcohol abuse and dependence: results from the National Longitudinal Alcohol Epidemiologic Survey. J Sub Abuse 1997;9:103-110.
- 6) Blume SB. Women and alcohol: A review. JAMA 1986;256:1467-1470.
- 7) Murray JB. Psychologists and alcoholic women. Psychol Rep 1989; 64:627-644.
- 8) Lex BW. Gender differences and substance abuse. Adv Subst Abuse 1991;4:225-296.
- 9) Matteo S. The risk of multiple addictions. Guidelines for assessing a woman's alcohol and drug use. West J Med 1988;149:741-745.
- 10) Wilsnack SC, Wilsnack RW. Epidemiological research on women's drinking; Recent progress and directions for the 1990s. In: Gomberg ESL, Nirenberg TD, editors. Women and Substance Abuse. Norwood, NJ: Ablex Publishing;1993. p.62-99.
- 11) Brady KT, Randall CL. Gender differences in substance use disorders. Psychiatr Clin North Am 1999;22:241-252.
- 12) Wilsnack SC, Vogelantz ND, Klassen AD Harris TR. Childhood sexual abuse and women's substance abuse: National survey findings. J Stud Alcohol 1997;58:264-271.
- 13) Miller BA, Downs WR Testa M. Interrelationships between victimization experiences and women's alcohol use. J Stud Alcohol 1993; 11 (suppl):109-117.
- 14) Miller BA. Partner violence experiences and women's drug use: Exploring the connections. In: Wetherington, CL. Roman AB, editors. Drug Addiction Research and the Health of Women. Rockville, MD: National Institute on Drug Abuse;1998. p.407-441.
- 15) Beckman LJ, Amaro H. Personal and social difficulties faced by women and men entering alcoholism treatment. J Stud Alcohol 1986;47: 135-145.
- 16) Crawford S, Ryder D. A study of sex differences in cognitive impairment in alcoholics using traditional and computer-based tests. Drug Alcohol Depend 1986;18:369-375.
- 17) Hesselbrock VM, Stabenau JR, Hesselbrock MN, Meyer RE, Babor TF. The nature of alcoholism in patients with different family histories for alcoholism. Prog Neuropsychopharmacol Biol Psychiatry 1982;6: 607-614.
- 18) Parrella DP, Filstead WJ. Definition of onset in the development of onset-based alcoholism typologies. J Stud Alcohol 1988;49:85-92.
- 19) Wanberg KW, Horn JL. Alcoholism symptom patterns of men and women: a comparative study. J Stud Alcohol 1970;31:40-61.
- 20) Schuckit MA, Daepfen JB, Tipp JE, Hesselbrock M, Bucholz KK. The clinical course of alcohol-related problems in alcohol dependent and nonalcohol dependent drinking women and men. J Stud Alcohol 1998;59:581-590.
- 21) Lex BW. Alcohol problems in special populations. In: Mendelson JH, Mello NK, editors. Medical Diagnosis and Treatment of Alcoholism. New York: McGraw-Hill;1992. p.71-154.
- 22) Piazza NJ, Vrbka JL, Yeager RD. Telescoping of alcoholism in women alcoholics. International Journal of the Addictions 1989;24:19-28.
- 23) Tavares H, Zilberman ML, Beites FJ, Gentil V. Gender differences in gambling progression. J Gamb Stud 2001;17:151-159.
- 24) Greenfield SF, O'Leary G. Sex differences in substance use disorders. In Lewis-Hall F, Williams TS, Panetta JA et al., editors. Psychiatric Illness in Women: Emerging Treatments and Research. Washington, DC: American Psychiatric Publishing;2002. p.467-533.
- 25) Blume SB, Zilberman ML. Addiction in Women. In Galanter M

- Kleber HD, editors. Textbook of substance abuse treatment. Washington, DC: American Psychiatric Publishing;2004. p.539-546.
- 26) Lewis CE, Smith E, Kercher C, Spitznagel E. Assessing gender interactions in the prediction of mortality in alcoholic men and women: A 20-year follow-up study. *Alcohol Clin Exp Res* 1995;19:1162-1172.
- 27) Frezza M, di Padova C, Pozzato G, Terpin M, Baraona E, Lieber CS. High blood alcohol levels in women. The role of decreased gastric alcohol dehydrogenase activity and first-pass metabolism. *N Engl J Med* 1990;322:95-99.
- 28) Lancaster FE. Gender differences in the brain: Implications for the study of human alcoholism. *Alcohol Clin Exp Res* 1994;18:740-746.
- 29) Fuchs CS, Stampfer MJ, Colditz GA, Giovannucci EL, Manson JE, et al. Alcohol consumption and mortality among women. *N Engl J Med* 1995;332:1245-1250.
- 30) Sherlock S. Liver disease in women. Alcohol, autoimmunity, and gallstones. *West J Med* 1988;149:683-686.
- 31) Paquignot G, Cyrulnik F. Chronic disease due to overconsumption of alcoholic drinks (excepting neuropsychiatric change). *Pharmacol Ther* 1970;11:375-412.
- 32) Brady KA, Badrinath S, Bush K, Boyd-Wickizer J, Anawalt B. Medical risks for women who drink alcohol. *J Gen Intern Med* 1998;13: 627-639.
- 33) Acker C. Neuropsychological deficits in alcoholics: the relative contributions of gender and drinking history. *Br J Addict* 1986;81:395-403.
- 34) Glenn SW, Parsons OA. Neuropsychological efficiency measures in male and female alcoholics. *J Stud Alcohol* 1992;53:546-552.
- 35) Acker C. Performance of female alcoholics on neuropsychological testing. *Alcohol Alcohol* 1985;20:379-386.
- 36) Nixon SJ, Tivis R, Parsons OA. Interpersonal problem-solving in male and female alcoholics. *Alcohol Clin Exp Res* 1992;16:684-687.
- 37) Jacobsen R. Female alcoholics: a controlled CT brain scan and clinical study. *Br J Addict* 1986;81:661-669.
- 38) Mann K, Batra A, Gunthner A, Schroth C. Do women develop alcoholic brain damage more readily than men? *Alcohol Clin Exp Res* 1992;16:1052-1056.
- 39) Kroft CL, Gescuk B, Woods BT, Mello NK, Weiss RD, Mendelson JH. Brain ventricular size in female alcoholics: An MRI study. *Alcohol* 1991;8:31-34.
- 40) Ashley MJ, Olin JS, LeRiche WH, Kornaczewski A, Schmidt W, Rankin JG. Morbidity in alcoholics. *Arch Intern Med* 1977;137:883-887.
- 41) Wilkinson P, Kornaczewski A, Rankin JG, Santamaria JN. Physical disease in alcoholism: initial survey of 1000 patients. *Med J Aust* 1971;1:1217-1223.
- 42) Nixon SJ. Cognitive deficits in alcoholic women. *Alcohol Health Res World* 1994;18:228-232.
- 43) Mello NK, Mendelson JH, Teoh SK. Neuroendocrine consequences of alcohol abuse in women. *Ann N Y Acad Sci* 1989;562:211-240.
- 44) Kinsey BA. The female alcoholic: a social psychological study. Springfield, Ill. Thomas;1966.
- 45) Sholty MJ. Female sexual experience and satisfaction as related to alcohol consumption. Baltimore: University of Maryland, Alcohol and Drug Abuse Program;1979.
- 46) Gearhart JG, Beebe D, Milhorn HT, Meeks GR. Alcoholism in women. *Am Fam Physician* 1991;44:907-913.
- 47) Hommer DW. Male and female sensitivity to alcohol-induced brain damage. *Alcohol Res Health* 2003;27:181-185.
- 48) Hommer D, Momenan R, Rawlings R, Ragan P, Williams W, Rio D, et al. Decreased corpus callosum size among alcoholic women. *Arch Neurology* 1996;53:359-363.
- 49) Agartz I, Shoaf S, Rawlings RR, Momenan R, Hommer DW. CSF monoamine metabolites and MRI brain volumes in alcohol dependence. *Psychiatry Res* 2003;122:21-35.
- 50) Hommer DW, Momenan R, Kaiser E, Rawlings RR. Evidence for a gender-related effect of alcoholism on brain volumes. *Am J Psychiatry* 2001;158:198-204.
- 51) Pfefferbaum A, Sullivan EV, Rosenbloom MJ, Shear PK, Mathalon DH, Lim KO. Increase in brain cerebrospinal fluid volume is greater in older than in younger alcoholic patients: A replication study and CT/MRI comparison. *Psychiatry Res* 1993;50:257-274.
- 52) Pfefferbaum A, Rosenbloom M, Deshmukh A, Sullivan E. Sex difference in the effects of alcohol on brain structure. *Am J Psychiatry* 2001;158:188-197.
- 53) Pfefferbaum A, Rosenbloom M, Serventi KL, Sullivan EV. Corpus callosum, pons, and cortical white matter in alcoholic women. *Alcohol Clin Exp Res* 2002;26:400-406.
- 54) Scweinsburg BC, Alhassoon OM, Taylor MJ, Gonzalez R, Videon JS, Brown GG, et al. Effects of alcoholism and gender on brain metabolism. *Am J Psychiatry* 2003;160:1180-1183.
- 55) Sexton H, Lipton RI, Nilssen O. Relating alcohol use and mood: results from the Tromso study. *J Stud Alcohol* 1999;60:111-119.
- 56) Wang JL, Patten SB. A prospective study of sex-specific effects of major depression on alcohol consumption. *Can J Psychiatry* 2001;46: 422-425.
- 57) Dixit AR, Crum RM. Prospective study of depression and the risk of heavy alcohol use in women. *Am J Psychiatry* 2000;157:751-758.
- 58) Kessler RC, Crum RM, Warner LA, Nelson CB, Schulenberg J, Anthony JC. Lifetime co-occurrence of DSM-III-R alcohol abuse and dependence with other psychiatric disorders in the National Comorbidity Survey. *Arch Gen Psychiatry* 1997;54:313-321.
- 59) Breslau N, Davis GC, Peterson EL, Schultz L. Psychiatric sequelae of posttraumatic stress disorder in women. *Arch Gen Psychiatry* 1997; 54:81-87.
- 60) Prescott CA, Aggen SH, Kendler KS. Sex-specific genetic influences on the comorbidity of alcoholism and major depression in a population-based sample of U.S. twins. *Arch Gen Psychiatry* 2000;57:803-811.
- 61) McGrath PH, Nunes EV, Quitkin FM. current concepts in the treatment of depression in alcohol-dependent patients. *Psychiatr Clin North Am* 2000;23:269-275.
- 62) Schuckit MA, Tipp JE, Anthenelli RM, Bucholz KK, Hesselbrock VM, Nurnberger Jr. Anorexia nervosa and bulimia nervosa in alcohol-dependent men and women and their relatives. *Am J Psychiatry* 1996;153:74-82.
- 63) Gombert ESL. Women and alcohol: use and abuse. *J Nerv Ment Dis* 1993;181:211-219.
- 64) Floyd RL, Decoufle P, Hungerford DW. Alcohol use prior to pregnancy recognition. *Am J Prev Med* 1999;17:101-107.
- 65) Fisher SE. Selective fetal malnutrition: the fetal alcohol syndrome. *J Am Coll Nutr* 1988;7:101-106.
- 66) Abel EL, Sokol RJ. Incidence of fetal alcohol syndrome and economic impact of FAS-related anomalies. *Drug Alcohol Depend* 1987; 19:51-70.
- 67) Taylor AN, Branch BJ, Van Zuylen JE, Redei E. Maternal alcohol consumption and stress responsiveness in offspring. *Adv Exp Med Biol* 1988;245:311-317.
- 68) Roman PM. Biological features of women's alcohol use: a review. *Public Health Rep* 1988;103:628-637.
- 69) Cochrane C, Malcolm R, Brewerton T. The role of weight control as a motivation for cocaine abuse. *Addict Behav* 1998;23:201-207.
- 70) Pirkola SP, Isometsa ET, Heikkinen ME, Henriksson MM, Marttunen MJ, Lonnqvist JK. Female psychoactive substance-dependent suicide victims differ from male--results from a nationwide psychological autopsy study. *Compr Psychiatry* 1999;40:101-107.
- 71) Sterling RC, Gotthel E, Weinstein SP, Serota R. The effect of therapist/patient race- and sex-matching in individual treatment. *Addiction* 2001;96:1015-1022.